



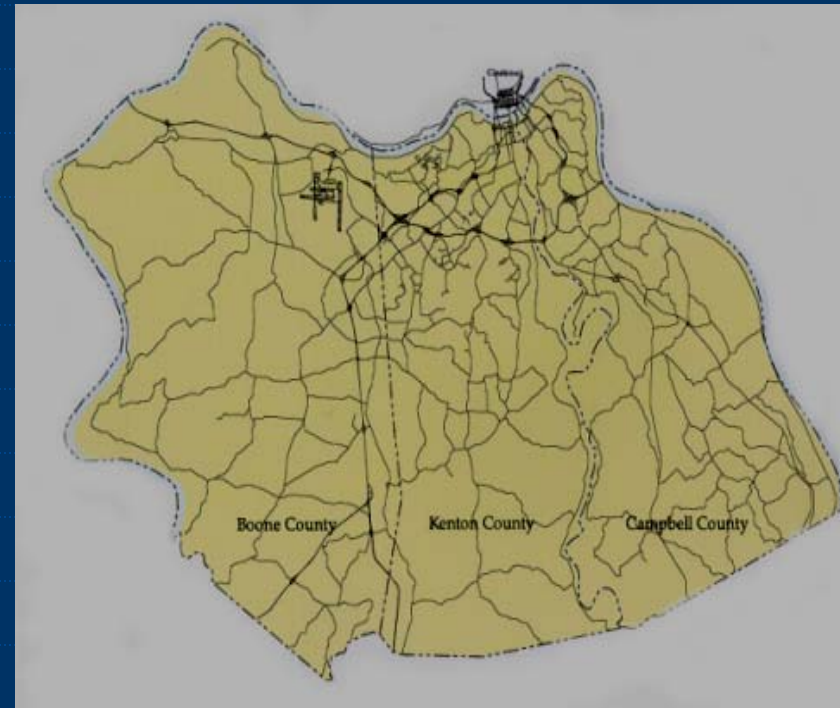
Northern Kentucky Storm Water Management Program

Over the next few minutes, we will discuss ...

- ◆ Where is Northern Kentucky?
- ◆ Storm water management from a historical perspective
- ◆ How the regional program was established
- ◆ What's ahead

Where is Northern Kentucky?

- ◆ Think of it as the “south side” of Cincinnati, OH
- ◆ Comprised of three counties (Boone, Campbell, and Kenton) and 39 cities
- ◆ Encompasses over 500 square miles
- ◆ Population of over 325,000
- ◆ Three Counties and 33 cities in urbanized area



Prior to 1998 ...

- ◆ Sanitation District No.1 assumed ownership and operation of sanitary sewer system
- ◆ Citizens sue Kenton County and several cities over chronic flooding along Banklick Creek
- ◆ Major flooding on the Ohio River occurs in 1997



In 1998 ...

Boone, Campbell, and Kenton
Counties conduct a Storm Water
Feasibility Study

County Commissioners ask Sanitation
District No. 1 to help

State legislation is passed to allow
SD#1 to perform storm water services

During the summer, two 100-year
rainfall events occur

In 1998

We began the **process** of forming a regional storm water management program with the objectives of assuming operation and maintenance of the public separate storm sewer system and compliance with the NPDES Phase II program. This program would be funded through the formation of a storm water utility.

Quantity and Quality

1998-2003

Tele-Research Poll

Storm Water Focus Group – 37 members

Municipal Representative Workgroup

Legal Counsel Workgroup

Chamber of Commerce

Credit Policy Focus Group

Rules and Regulations Focus Group

Public Workshops

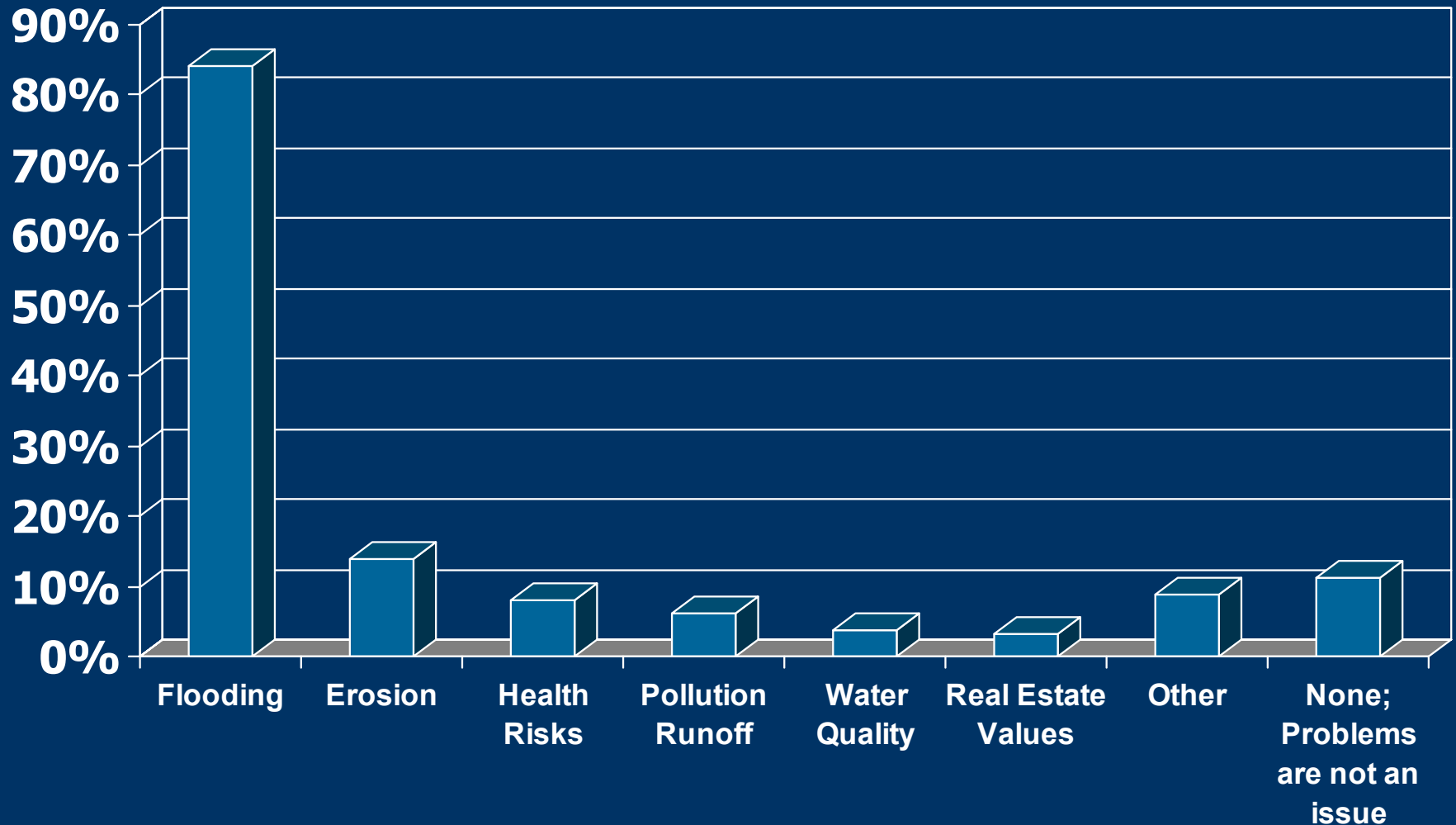
City Councils and other public meetings

Findings of Tele-Research Poll

- ◆ Storm water is not perceived to be a major problem.
 - Only 39% identified it as a problem in the area
 - Only 24% said it was a problem in their neighborhood



Ranking of Storm Water Related Problems



Findings of Tele-Research Poll

- ◆ Flooding was identified as the main storm water related problem.
 - 79% believe drainage problems result in hazardous driving conditions.
 - 80% believe growth and construction are the primary causes of flooding.



Key Tasks Initiated to Date

- ◆ Immediate needs assessment
- ◆ Storm water program policies and priorities
- ◆ Rules and regulations
- ◆ Drainage system inventory
- ◆ Storm water utility
- ◆ USGS stream gauging program
- ◆ Public Education and Outreach
- ◆ Inter-local agreements



Other needs...

Capital Improvement needs

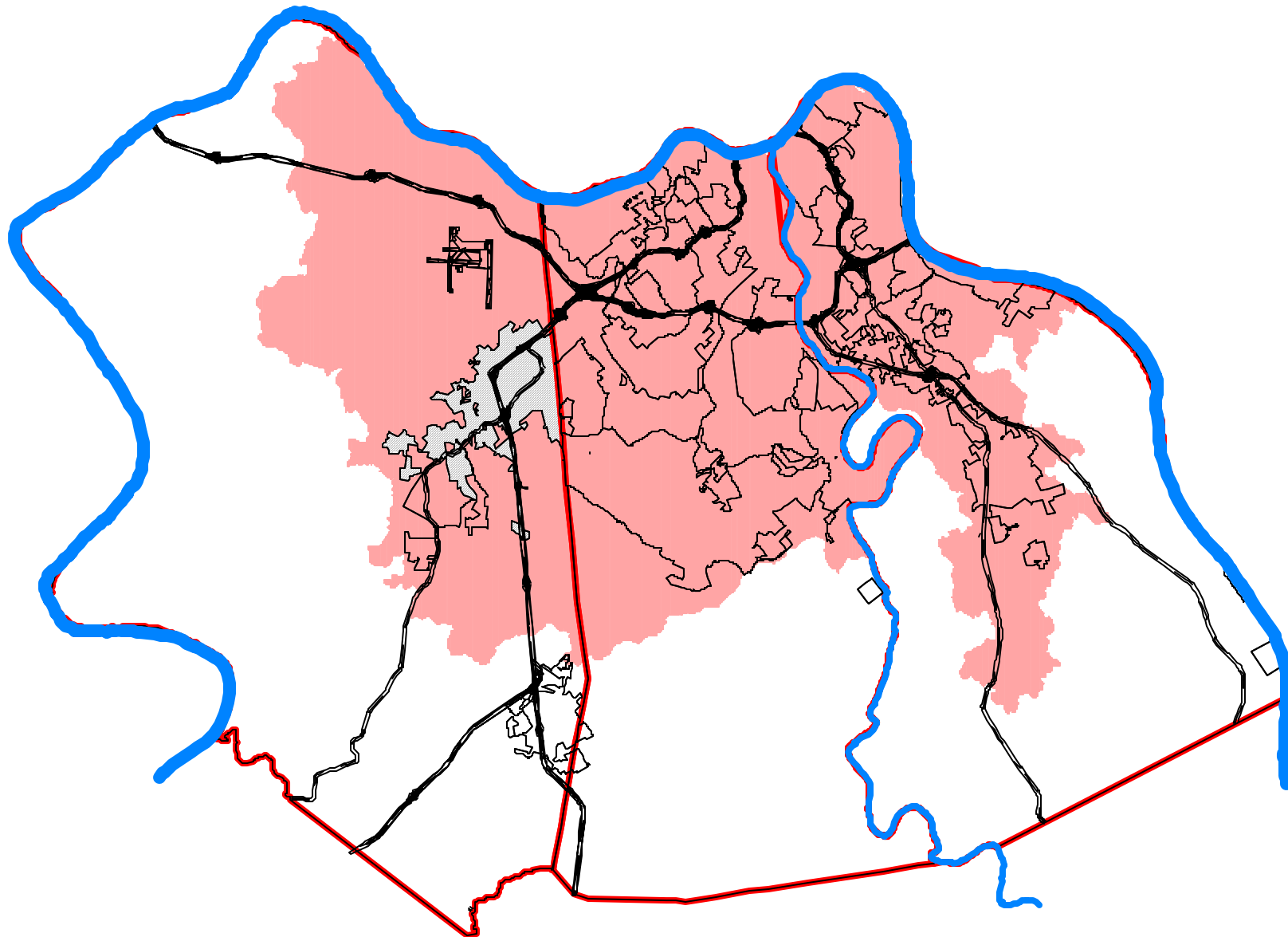
Consistent Rules and Regulations

Consistent Plan Review and Inspection

Master Planning

Watershed management

Storm Water Service Area



Permit Compliance Area as Defined by KDOW

Storm Water Program Needs

Routine Maintenance Needs	\$2,400,000
Remedial Maintenance Needs	\$300,000
Capital Improvements Needs	\$8,500,000
Operating Expense Needs	\$1,400,000
Program Expense Needs (NPDES Phase II - \$500,000)	\$1,400,000
Debt Service Needs	\$1,300,000
Total Annual Expense Needs	\$15,300,000

Storm Water Program Budget

Operating Expenses	\$1,400,000
Program Expenses (NPDES Program - \$500,000)	\$1,400,000
Capital Improvements	\$2,900,000
Operation & Maintenance	-
Debt Service	\$1,300,000
Total Annual Budget	\$7,000,000

Storm Water Utility Summary

- ◆ 80,705 residential properties
- ◆ 8,766 non-residential properties - 99,477 ERUs
- ◆ Storm water fee - \$3.75 per ERU per month
- ◆ Credits up to 80% for water quality and quantity measures
- ◆ Generates approximately \$7 million

Summary

Counties, Cities, and KYDOT signed inter-local agreements with SD# 1

KPDES MS4 Permit application submitted March 10, 2003.

Counties, Cities, and KYDOT are co-permittees, with responsibilities to assist SD# 1 with permit compliance.

Municipalities will retain operation and maintenance responsibilities for the public storm sewer system for approximately 5 more years.

What's Next...

- ◆ SD#1 begins storm water program implementation on August 1, 2003:
 - Public education/involvement
 - Illicit discharge detection
 - Plan review and inspections for construction site runoff control and post-construction runoff control
 - Good housekeeping coordination
- ◆ Storm water utility billing begins August 1, 2003

Overview of Action Plan

www.sd1.org



DRAFT

NPDES
Phase II
Storm Water
Management
Plan

Sanitation
District No. 1
of Northern
Kentucky

June, 2002